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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
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U. S. Patent and Trademark Office

Sheet

of

10

<b>Complete If Known</b>	
Application Number	10/802,955
Filing Date	March 16, 2004
First Named Inventor:	Eugene T. Michal
Art Unit	1651
Examiner Name	Allison M. Ford
Attorney Docket No.	005618.P4124X

**U.S. PATENT DOCUMENTS**

Exmnr Initials*	Cite No. <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
CP	1.	3,780,733	B1	12-25-1973	Martinez-Mangor	
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	3.	4,794,931	B1	01-03-1989	Yock	
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	18.	5,380,292	B1	01-10-1995	Wilson	
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✓	30.	5,621,610	B1	04-15-1997	More, P.M. et al.	
	31.	5,642,234	B1	06-24-1997	Altman et al.	

Examiner  
Signature*Alvin S.*

Date Considered

*22 Jan 07*

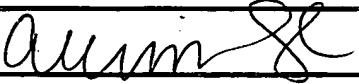
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Substitute for Form 1449/PTO					<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>						
Sheet	2	of	10	Attorney Docket No.	005618.P4124X	

32.	5,655,548	B1	08-12-1997	Nelson et al.	
33.	5,693,029	B1	12-02-1997	Leonhardt	
34.	5,722,403	B1	03-03-1998	McGee et al.	
35.	5,740,808	B1	04-21-1998	Panescu et al.	
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37.	5,827,313	B1	10-27-1998	Ream	
38.	5,843,156	B1	12-01-1998	Slepian et al.	
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41.	5,935,160	B1	08-10-1999	Auricchio et al.	
42.	5,939,323	B1	08-17-1999	Valentini et al.	
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45.	5,968,064	B1	10-19-1999	Selmon et al.	
46.	5,979,449	B1	11-09-1999	Steer, Eugene	
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49.	6,022,540	B1	02-08-2000	Bruder et al.	
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52.	6,056,744	B1	05-02-2000	Edwards	
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54.	6,071,305	B1	06-06-2000	Brown et al.	
55.	6,086,582	B1	07-11-2000	Altman et al.	
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57.	6,099,563	B1	08-08-2000	Sheng-Ping Zhong	
58.	6,099,864	B1	08-08-2000	Morrison et al.	
59.	6,102,887	B1	08-15-2000	Altman	
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61.	6,102,926	B1	08-15-2000	Tartaglia et al.	
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68.	6,175,669	B1	01-16-2001	Colston et al.	

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Art Unit	1651
Examiner Name	Allison M. Ford

Sheet 3 of 10 Attorney Docket No. 005618.P4124X

69.	6,177,407	B1	01-23-2001	Rodgers et al.
70.	6,179,809	B1	01-30-2001	Khairkhahan et al.
71.	6,183,432	B1	02-06-2001	Milo
72.	6,183,444	B1	02-06-2001	Glines et al.
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74.	6,190,353	B1	02-20-2001	Makower et al.
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76.	6,193,763	B1	02-27-2001	Mackin
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78.	6,201,608	B1	03-13-2001	Mandella et al.
79.	6,206,893	B1	03-27-2001	Klein et al.
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87.	6,235,000	B1	05-22-2001	Milo et al.
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89.	6,251,104	B1	06-26-2001	Kesten, et al.
90.	6,283,947	B1	09-04-2001	Daryush Mirzaee
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94.	6,299,604	B1	10-09-2001	Ragheb et al.
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101.	6,358,247	B1	03-19-2002	Altman et al.
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103.	6,368,285	B1	04-09-2002	Osadchy et al.
104.	6,371,935	B1	04-16-2002	Macoviak et al.
105.	6,371,992	B1	04-16-2002	Tanagho et al.

Examiner Signature	<i>Allison M. Ford</i>	Date Considered	22 Jan 07
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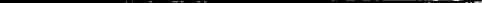
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Sheet 4 of 10 Attorney Docket No. 005618.P412

106.	6,379,379	B1	04-30-2002	Wang
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110.	6,409,716	B1	06-25-2002	Sahatjian et al.
111.	6,416,510	B1	07-09-2002	Altman et al.
112.	6,432,119	B1	08-13-2002	Saadat
113.	6,436,135	B1	08-20-2002	Goldfarb
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121.	6,548,081	B1	04-15-2003	Sadozai et al.
122.	6,554,801	B1	04-29-2003	Steward et al.
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125.	6,629,947	B1	10-07-2003	Sahatjian et al.
126.	6,632,457	B1	10-14-2003	Sawhney, A.S.
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132.	6,702,744	B1	03-09-2004	Mandrusov et al.
133.	6,706,034	B1	03-16-2004	Bhat, Vinayak D.
134.	6,737,072	B1	05-18-2004	Angele, P., et al.
135.	6,748,258	B1	06-08-2004	Mueller et al.
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139.	6,858,229	B1	02-22-2005	Hubbell et al.
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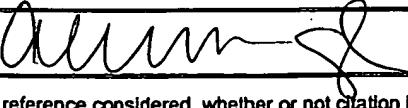
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					Examiner Name	Allison M. Ford
					Attorney Docket No.	005618.P4124X

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Exmrn Initials*	Cite No. <sup>1</sup>	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup>				
148.	EP 0691603	A1	01-10-1996	Compaq Computer Corp.			
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150.	EP 0938871	A2	09-01-1999	Eclipse Surgical Technologies, Inc.			
151.	GB 2194144	A1	03-02-1988	American Cyanamid Company			
152.	WO 00/71196	A1	11-30-2000	Micro Therapeutics, Inc.			
153.	WO 01/24775	A1	04-12-2001	Essentia Biosystems, Inc.			
154.	WO 01/45548	A2	06-28-2001	Tricardia, Inc.			
155.	WO 01/49357	A2	07-12-2001	Advanced Cardiovascular System			
156.	WO 02/28450	A2	04-11-2002	Spence, Paul. A., et al.			
157.	WO 03/027234	A2	04-03-2003	Curis, Inc.			
158.	WO 03/064037	A1	08-07-2003	Medtronic			
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160.	WO 2004/066829	A2	08-12-2004	Origin Medsystems			
161.	WO 2004/091592	A2	10-28-2004	Guidant Corporaiton, V.I.			
162.	WO 92/10142	A1	06-25-1992	Pfizer Hosp. Products Group			
163.	WO 98/54301	A2	12-3-1998	Mickle, D.A., et al.			

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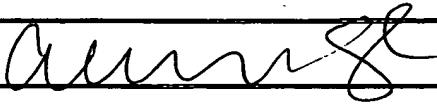
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**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
AM	164.	Agocha A. et al. "Hypoxia regulates basal and induced DNA synthesis and collagen type I production in human cardiac fibroblasts: effects of transforming growth factor-beta 1, thyroid hormone, angiotensin II and fibroblast growth factor," <i>J. Mol. Cell. Cardiol.</i> (1997) 29(8): 2233-2244.	
	165.	Anderson, J. et al. "Biodegradation and Biocompatibility of PLA and PLGA Microspheres," <i>Advanced Drug Delivery Reviews</i> 28 (1997), pp.5-24.	
	166.	Baxter, "FloSeal Matrix Hemostatic Sealant," downloaded from the Internet on November 14, 2002, from: <a href="http://www.fusionmed.com/docs/surgeon/default.asp">http://www.fusionmed.com/docs/surgeon/default.asp</a> , 2 pages.	
	167.	Berger et al. "Poly-L-cysteine," <i>J. Am. Chem. Soc.</i> 78, p. 4483-4488 (1956).	
	168.	Bernatowicz, M. et al. "Preparation of Boc-[S-(3-nitro-2-pyridinesulfenyl)]-cysteine and its use for Unsymmetrical Disulfide Bond Formation," <i>Int. J. Peptide Protein Res.</i> (1986), 28(2):107-112.	
	169.	Boland, E.D. "Electrospinning Collagen and Elastin: Preliminary Vascular Tissue Engineering" <i>Frontiers in Bioscience</i> 9, pp. 1422-1432, May 1, 2004.	
	170.	Brust, Gregory, "Polymides", <a href="http://www.psrc.usm.edu/macrog/imide.htm">www.psrc.usm.edu/macrog/imide.htm</a> , 4 pages, NO DATE.	
	171.	Buschmann, I. et al. "Arteriogenesis Versus Angiogenesis: Two Mechanisms of Vessel Growth," <i>News Physio. Sci.</i> 14 (June 1999), pp.121-125.	
	172.	Canderm Pharma, "Technical Dossier: Artecoll," downloaded from the Internet on October 22, 2002 from: <a href="http://www.canderm.com/arteccc/tech.html">http://www.canderm.com/arteccc/tech.html</a> , 3 pages.	
✓	173.	Carpino, L. et al. "Tris (2-Aminoethyl)amine as a Substitute for 4-(Aminomethyl)piperidine in the FMOC/Polyamine Approach to Rapid Peptide Synthesis," <i>J. Org. Chem.</i> 55 (1990), pp. 1673-1675.	

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Date Considered

22 Jan 07

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				Application Number	10/802,955
				Filing Date	March 16, 2004
				First Named Inventor:	Eugene T. Michal
				Art Unit	1651
				Examiner Name	Allison M. Ford
Sheet	7	of	10	Attorney Docket No.	

174.	Chandy et al. "Development of Porous Alignate/Elastin/PEG Composite Matrix for Cardiovascular Engineering," <u>J. Biomat. Appl.</u> 17 (2003), pp. 287-301.
175.	Corbett, S. et al. "Covalent Cross-linking of Fibronectin to Fibrin is Required for Maximal Cell Adhesion to a Fibronectin-Fibrin Matrix," <u>The Journal of Biological Chemistry</u> (October 3, 1997), 272(40):24999-25005.
176.	Creemers, E. et al. "Matrix Metalloproteinase Inhibition After Myocardial Infarction, A New Approach to Prevent Heart Failure?" <u>Cir. Res.</u> Vol. 89, (2001), pp. 201-210.
177.	Crivello, et al. "Synthesis and Photoinitiated Cationic Polymerization of Monomers with the Silsesquioxane Core," <u>J Polym Science Part A Polym Chem</u> 35 (1997), pp. 407-425.
178.	Davis, M.E. et al., "Injectable Self-Assembling Peptide Nanofibers Create Intramyocardial Microenvironments for Endothelial Cells" <u>Circulation</u> 2005: 111:442-450
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180.	Edelman, E.R. et al. "Controlled & Modulated Release of Basic Fibroblast Growth Factor," <u>Biomaterials</u> 12 (1991), p. 619-626.
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183.	Gossler, et al. (1986), <u>Proc. Natl. Acad. Sci. USA</u> , 83:9065-9069.
184.	Grafe, T.H., "Nanofiber Webs from Electrospinning" Presented at the Nonwovens in Filtration - Fifth International Conference, Stuttgart, Germany, March 2003, pg. 1-5.
185.	Grund, F. et al. "Microembolization in Pigs: Effects on Coronary Blood Flow and Myocardial Ischemic Tolerance," <u>AM J. Physiol.</u> 277 (1999), pp. H533-H542.

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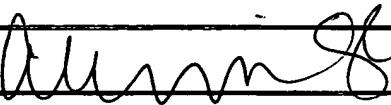
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STATEMENT BY APPLICANT**  
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**Complete If Known**

Application Number	10/802,955
Filing Date	March 16, 2004
First Named Inventor:	Eugene T. Michal
Art Unit	1651
Examiner Name	Allison M. Ford

Sheet 8 of 10 Attorney Docket No. 005618.P4124X

186.	Gupta et al. "Changes in Passive Mechanical Stiffness of Myocardial Tissue with Aneurysm Formation," <u>Circulation</u> (May 1994), 89(5):2315-2326.
187.	Hashimoto, T. et al. "Development of Alginate Wound Dressings Linked with Hybrid Peptides Derived from Laminin and Elastin," <u>Biomaterials</u> 25 (2004), pp. 1407-1414.
188.	Heeschens et al. "Nicotine Stimulates Tumor Angiogenesis", Abstract, American College of Cardiology 50th Annual Scientific Session, Standford, California, March 18, 2001 (1 page)
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191.	Huang, K. et al. "Synthesis and Characterization of Self-Assembling Block Copolymers Containing Bioadhesive End Groups," <u>Biomacromolecules</u> (2002), 3(2):397-406.
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194.	Johnson, O.L. et al. "The Stabilization & Encapsulation of Human Growth Hormone into Biodegradable Microspheres," <u>Pharm Res.</u> 14(6):730-735 (1997).
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196.	Kawai, K. et al. "Accelerated Tissue Regeneration Through Incorporation of Basic Fibroblast Growth Factor-Impregnated Gelatin Microspheres into Artificial Dermis," <u>Biomaterials</u> 21 (2000), pp. 489-499.
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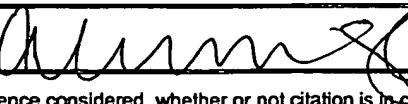
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Sheet 9 of 10 Attorney Docket No. 005618.P4124X

		Complete if Known	
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		First Named Inventor:	Eugene T. Michal
		Art Unit	1651
		Examiner Name	Allison M. Ford
90		198. Kelly, E.B. "Advances in Mammalian and Stem Cloning," <u>Genetic Engineering News</u> , Vol. 23, Number 7, April 1, 2003, 2 pages.	
199.		Kim, D. et al. "Glow Discharge Plasma Deposition (GDPD) Technique for the Local Controlled Delivery of Hirudin from Biomaterials," <u>Pharmaceutical Research</u> (1998), 15( 5):783-786.	
200.		Klugherz, B. et al. "Gene Delivery From a DNA Controlled-Release Stent in Porcine Coronary Arteries," <u>Nature Biotechnology</u> 18 (November 2000), pp. 1181-1184.	
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<i>[Signature]</i>	210.	Shin, H. et al. "In Vivo Bone & Soft Tissue Response to Injectable, Biodegradable Eligio (Polyethylene Glycol Fumarate) Hydrogels," <i>Biomaterials</i> 24 (2003), pp. 3201-3211.	
<i>[Signature]</i>	211.	Yamamoto, N. et al. "Histologic Evidence that Basic Fibroblast Growth Factor Enhances the Angiogenic Effects of Transmyocardial Laser Revascularization," <i>Basic Research in Cardiology</i> (February 2000), 95(1):55-63.	

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